

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1211224

Luminaire Tested: **ARCH4-210-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21721 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

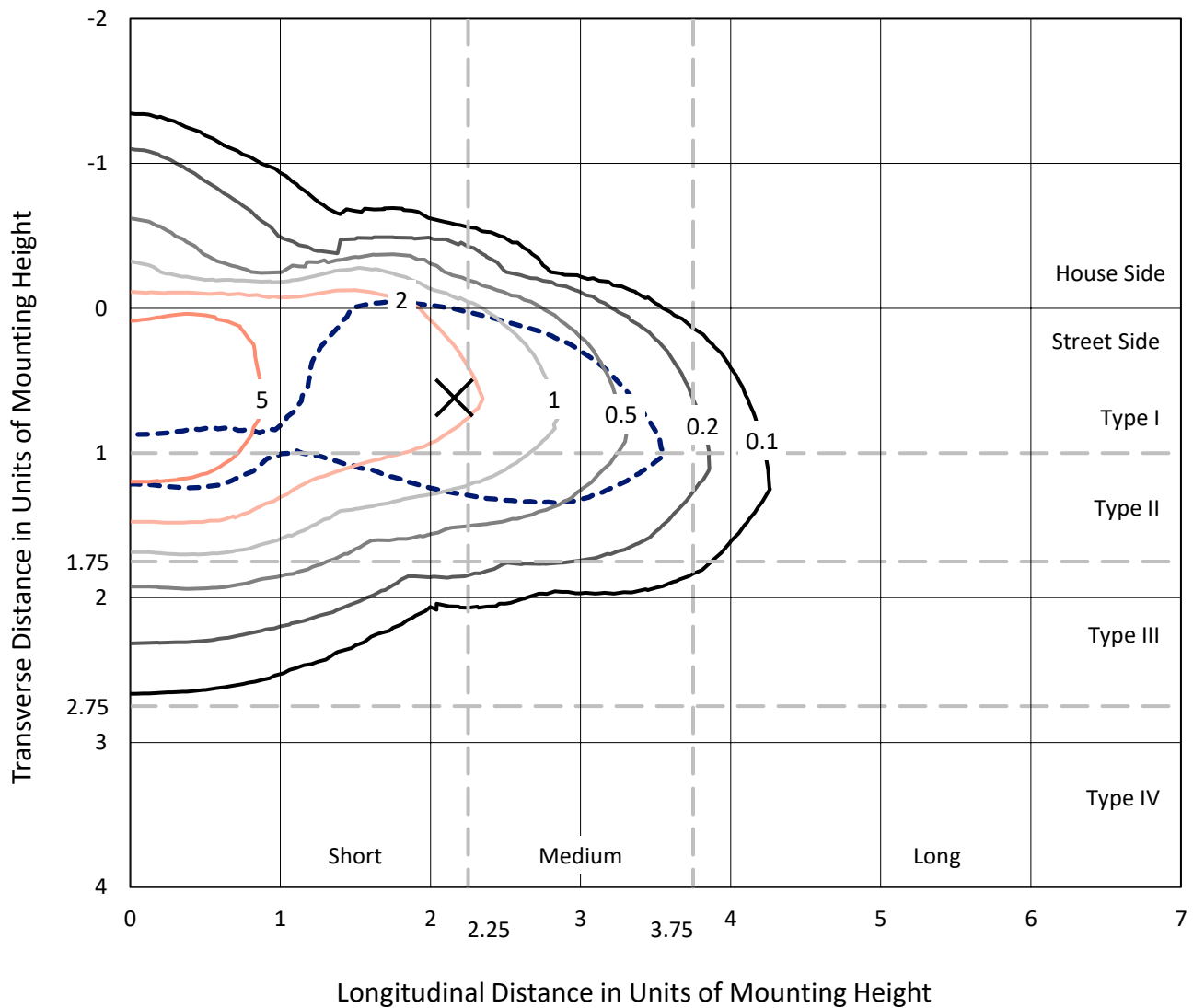
Input Watts (W): 213.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

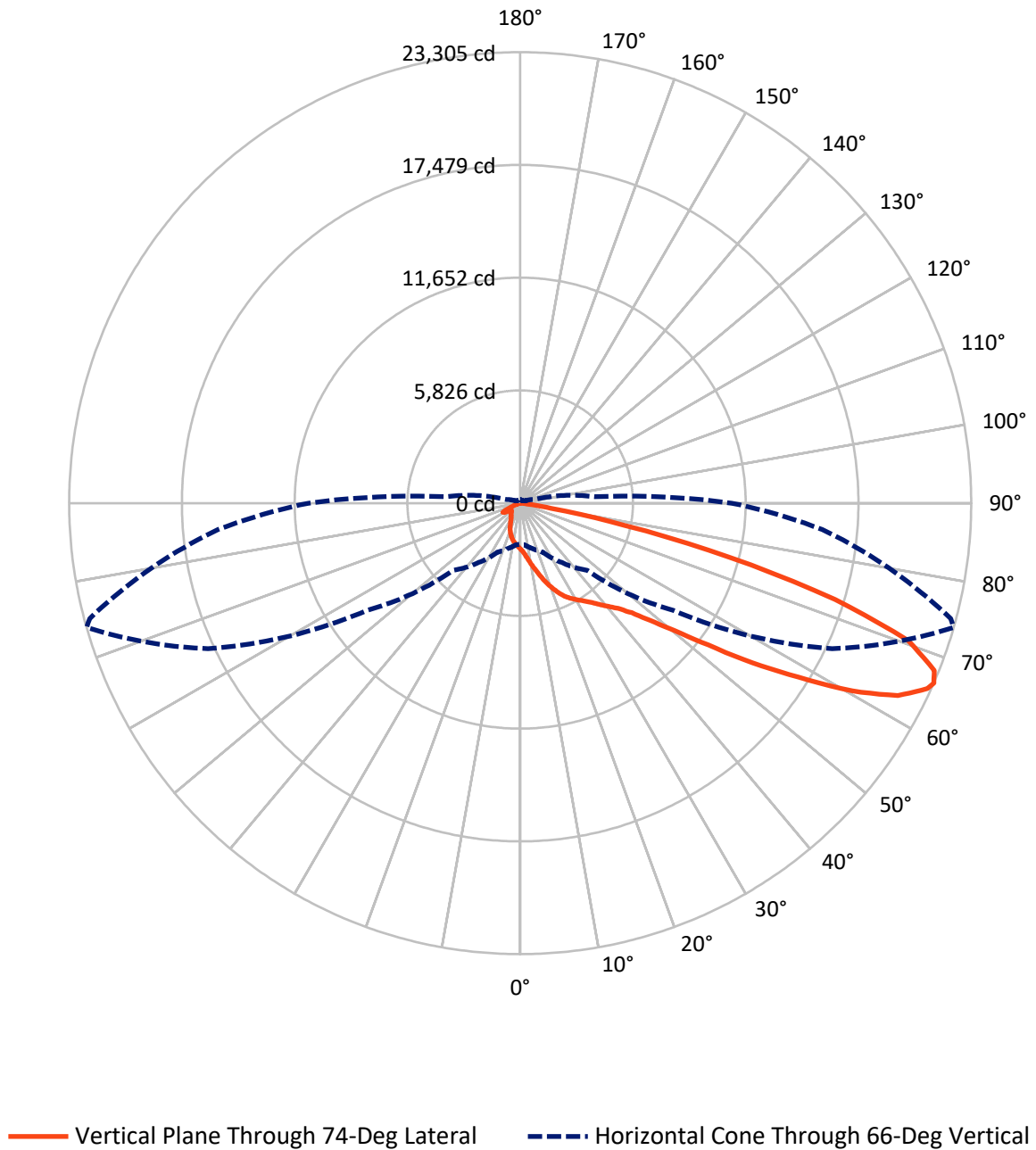
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2129.4	0.0	2129.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	19591.7	0.0	19591.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	21721.0	0.0	21721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.1
10°-20°	741.9	3.4
20°-30°	1415.9	6.5
30°-40°	2481.8	11.4
40°-50°	4255.6	19.6
50°-60°	5534.7	25.5
60°-70°	5010.2	23.1
70°-80°	1933.2	8.9
80°-90°	116.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21721.0	100.0
0°-180°	21721.0	100.0

Coefficient of Utilization



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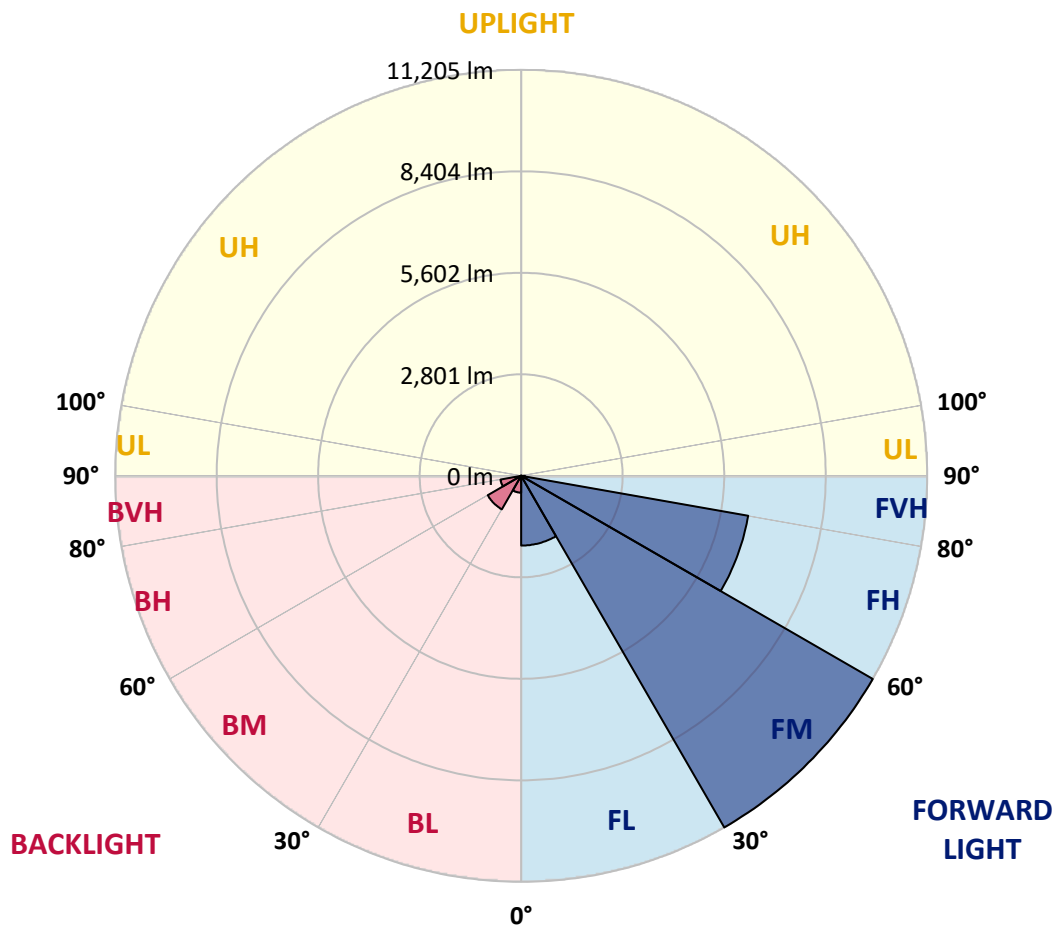
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.8	8.9			
FM	(30°-60°)	11204.8	51.6			
FH	(60°-80°)	6361.3	29.3			G3/7500
FVH	(80°-90°)	100.7	0.5			G2/225
BL	(0°-30°)	464.5	2.1	B1/500		
BM	(30°-60°)	1067.2	4.9	B2/2500		
BH	(60°-80°)	582.1	2.7	B2/1000		G2/1000
BVH	(80°-90°)	15.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0
2.5°	2846.8	2823.4	2780.5	2776.6	2741.5	2698.6	2624.5	2546.5	2491.9	2484.1	2417.8
5°	3408.4	3396.7	3353.8	3326.5	3260.2	3158.8	2987.2	2815.6	2671.3	2655.7	2507.5
7.5°	3556.6	3564.4	3572.2	3599.4	3576.1	3529.3	3400.6	3158.8	2932.6	2897.5	2640.1
10°	3580.0	3572.2	3572.2	3607.2	3673.5	3739.8	3724.2	3517.6	3225.1	3182.2	2823.4
12.5°	3833.4	3845.1	3817.8	3802.2	3790.5	3825.6	3942.6	3852.9	3533.2	3498.1	3045.7
15°	4161.0	4157.1	4118.1	4118.1	4083.0	4024.5	4098.6	4164.9	3903.6	3860.7	3299.2
17.5°	4398.9	4414.5	4410.6	4434.0	4422.3	4344.3	4305.3	4441.8	4285.8	4231.2	3587.8
20°	4590.0	4632.9	4648.5	4722.6	4757.7	4703.1	4601.7	4687.5	4652.4	4601.7	3880.2
22.5°	4792.8	4827.9	4855.2	4983.9	5081.3	5069.6	4941.0	4921.5	5007.3	4960.5	4168.8
25°	4995.6	5011.2	5093.0	5249.0	5405.0	5444.0	5311.4	5159.3	5327.0	5284.1	4426.2
27.5°	5217.8	5225.6	5323.1	5514.2	5732.6	5814.5	5709.2	5428.4	5572.7	5572.7	4660.2
30°	5623.4	5701.4	5740.4	5912.0	6103.1	6216.2	6091.4	5713.1	5791.1	5826.2	4905.9
32.5°	6496.9	6508.6	6496.9	6571.0	6610.0	6676.3	6532.0	6032.9	6013.4	6052.4	5147.6
35°	7830.7	7783.9	7659.1	7549.9	7323.7	7198.9	7011.7	6442.4	6286.4	6341.0	5385.5
37.5°	9449.0	9382.7	9098.1	8762.7	8279.1	7780.0	7546.0	6941.5	6633.4	6703.6	5642.9
40°	10993.3	10950.4	10611.2	10197.8	9371.0	8517.0	8021.7	7362.7	7019.5	7046.8	5904.2
42.5°	12264.6	12256.8	11972.2	11539.3	10478.6	9312.6	8583.3	7776.1	7425.1	7468.0	6177.2
45°	13227.9	13153.8	12943.2	12631.2	11551.0	10139.3	9261.9	8403.9	8076.3	8127.0	6586.6
47.5°	13227.9	13239.6	13376.1	13344.9	12299.7	10915.3	10002.8	9195.6	9039.6	9086.4	7261.3
50°	12151.6	12260.7	12869.1	13380.0	12689.7	11519.8	10802.2	10186.1	10346.0	10416.2	8439.0
52.5°	10022.3	10205.6	11262.4	12428.4	12401.1	11824.0	11629.0	11445.7	12163.3	12288.0	10178.3
55°	7616.2	7737.1	9113.7	10646.3	11145.4	11574.4	12350.4	13044.6	14569.4	14542.1	11944.9
57.5°	5689.7	5802.8	6988.3	8688.6	9347.6	10494.2	12720.9	14873.6	16956.0	17061.3	13602.3
60°	4184.4	4270.2	5280.2	6676.3	7627.9	8840.7	12572.7	16675.2	19705.3	19584.4	15064.7
62.5°	3096.4	3143.2	3872.4	4781.1	6044.6	7202.8	11640.7	17907.6	21900.9	21655.2	15879.7
65°	2394.4	2410.0	2788.3	3271.9	4395.0	5600.0	10252.4	18094.7	23113.7	22852.4	15864.1
66°	2133.2	2144.9	2421.7	2796.1	3739.8	4902.0	9644.0	17794.5	23304.8	23027.9	15669.1
67.5°	1790.0	1782.2	1946.0	2191.6	2807.8	3782.7	8563.8	16917.0	23078.6	22938.2	15045.2
70°	1325.9	1329.8	1411.7	1470.2	1641.8	2094.2	6185.0	14674.7	21269.1	21261.3	13333.2
72.5°	982.7	994.4	1056.8	1068.5	1025.6	1134.8	3564.4	11671.9	17014.5	17018.4	9967.7
75°	737.0	756.5	776.0	783.8	744.8	717.6	1610.6	7854.1	11192.2	11110.3	5642.9
77.5°	561.6	569.4	585.0	573.3	565.5	495.3	670.8	3829.5	5525.9	5034.5	1829.0
80°	409.5	409.5	425.1	409.5	405.6	354.9	366.6	1228.4	1622.3	1349.3	393.9
82.5°	257.4	253.5	265.2	261.3	253.5	226.2	214.5	343.2	374.4	335.4	191.1
85°	144.3	140.4	136.5	132.6	120.9	101.4	117.0	128.7	171.6	175.5	136.5
87.5°	50.7	50.7	46.8	42.9	35.1	35.1	42.9	42.9	62.4	62.4	70.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0	2371.0
2.5°	2386.6	2343.7	2281.3	2199.4	2141.0	2082.5	2020.1	1985.0	1934.3	1922.6	1938.2
5°	2429.5	2351.5	2195.5	2024.0	1875.8	1743.2	1618.4	1544.3	1470.2	1442.9	1454.6
7.5°	2519.2	2386.6	2121.5	1844.6	1598.9	1400.0	1251.8	1166.0	1099.7	1072.4	1080.2
10°	2651.8	2449.0	2051.3	1641.8	1325.9	1115.3	990.5	935.9	896.9	881.3	885.2
12.5°	2811.7	2538.7	1961.6	1439.0	1091.9	908.6	850.1	838.4	830.6	822.8	826.7
15°	2991.1	2616.7	1856.3	1240.1	908.6	807.2	787.7	783.8	779.9	779.9	779.9
17.5°	3178.3	2686.9	1739.3	1052.9	791.6	744.8	733.1	733.1	733.1	737.0	737.0
20°	3353.8	2741.5	1602.8	885.2	725.3	686.4	678.6	678.6	682.5	686.4	686.4
22.5°	3525.4	2764.9	1442.9	768.2	670.8	635.7	624.0	624.0	624.0	627.9	627.9
25°	3673.5	2764.9	1283.0	694.2	624.0	588.9	573.3	569.4	573.3	573.3	573.3
27.5°	3798.3	2753.2	1127.0	643.5	577.2	542.1	526.5	522.6	530.4	534.3	534.3
30°	3930.9	2737.6	1002.2	596.7	538.2	503.1	487.5	487.5	499.2	514.8	514.8
32.5°	4059.6	2749.3	904.7	557.7	499.2	471.9	456.3	460.2	483.6	507.0	507.0
35°	4196.1	2772.7	846.2	530.4	471.9	444.6	432.9	444.6	468.0	491.4	491.4
37.5°	4332.6	2800.0	811.1	507.0	448.5	421.2	413.4	429.0	456.3	479.7	483.6
40°	4476.9	2823.4	772.1	483.6	432.9	401.7	397.8	413.4	448.5	471.9	475.8
42.5°	4656.3	2870.2	725.3	464.1	417.3	378.3	382.2	393.9	429.0	464.1	468.0
45°	5007.3	3018.4	678.6	444.6	397.8	366.6	358.8	366.6	405.6	444.6	452.4
47.5°	5666.3	3353.8	627.9	425.1	378.3	358.8	327.6	335.4	370.5	413.4	417.3
50°	6929.8	4067.4	600.6	405.6	362.7	331.5	296.4	296.4	323.7	362.7	362.7
52.5°	8899.2	5346.5	616.2	390.0	343.2	304.2	269.1	265.2	280.8	308.1	308.1
55°	11024.5	6750.4	674.7	374.4	319.8	288.6	249.6	230.1	241.8	257.4	257.4
57.5°	12709.2	7456.3	834.5	366.6	292.5	276.9	226.2	198.9	210.6	226.2	226.2
60°	13450.2	7042.9	1013.9	374.4	273.0	257.4	202.8	175.5	195.0	210.6	214.5
62.5°	12849.6	5798.9	1088.0	354.9	245.7	230.1	198.9	163.8	187.2	198.9	202.8
65°	11551.0	4406.7	850.1	308.1	226.2	198.9	179.4	156.0	175.5	187.2	187.2
66°	10934.8	3841.2	725.3	284.7	218.4	187.2	171.6	156.0	171.6	179.4	183.3
67.5°	9979.4	3030.1	538.2	249.6	202.8	171.6	159.9	148.2	163.8	171.6	171.6
70°	7803.4	1805.6	323.7	195.0	175.5	152.1	144.3	136.5	148.2	152.1	152.1
72.5°	4886.4	857.9	206.7	144.3	148.2	144.3	120.9	128.7	132.6	136.5	136.5
75°	2367.1	339.3	140.4	105.3	120.9	136.5	97.5	113.1	117.0	124.8	120.9
77.5°	659.1	163.8	89.7	78.0	105.3	105.3	74.1	89.7	105.3	132.6	120.9
80°	191.1	105.3	58.5	58.5	74.1	74.1	50.7	62.4	70.2	78.0	81.9
82.5°	132.6	70.2	39.0	42.9	42.9	46.8	31.2	31.2	39.0	39.0	42.9
85°	105.3	31.2	23.4	27.3	19.5	23.4	15.6	15.6	19.5	15.6	15.6
87.5°	42.9	15.6	15.6	15.6	11.7	11.7	7.8	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)